

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
**WO 2005/063568 A1**

(51) International Patent Classification<sup>7</sup>: **B64D 11/04**,  
I3/06, F25D 17/02

(21) International Application Number:  
PCT/EP2004/014851

(22) International Filing Date:  
30 December 2004 (30.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
103 61 645.4 30 December 2003 (30.12.2003) DE

(71) Applicant (for all designated States except US): **AIRBUS  
DEUTSCHLAND GMBH** [DE/DE]; Kreetslag 10, 21129  
Hamburg (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHERER,**  
Thomas [DE/DE]; Tinsdaler Kirchenweg 228 a, 22559  
Hamburg (DE). **WITSCHKE, Matthias** [DE/DE]; Eich-  
heister 12, 21079 Hamburg (DE). **COLBERG, Carsten**  
[DE/DE]; Am Gehegegraben 30, 21147 Hamburg (DE).

(74) Agent: **BEYER, Andreas; WUESTHOFF &  
WUESTHOFF**, Schweigerstrasse 2, 81541 München  
(DE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

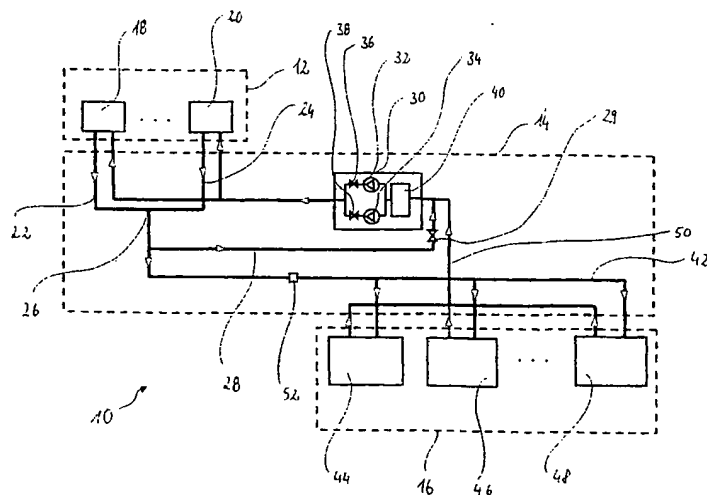
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: COOLING SYSTEM FOR THE COOLING OF HEAT-PRODUCING DEVICES IN AN AIRCRAFT



(57) Abstract: A cooling system (10) for the cooling of heat producing devices (44, 46, 48) in an aircraft is designed with a central cold producing device (12), at least one cold consumer (44, 46, 48) and a cold conveyance system (14) which connects the cold producing device (12) and the cold consumer (44, 46, 48). With this cooling system, the cold conveyance system (14) has at least one cooling circuit which supplies a cooled cold carrier medium from the cold producing device (12) to at least one cold consumer (44, 46, 48) and brings this back to the cold producing device (12), so that at least one cold consumer (44, 46, 48) is supplied with the cold produced in the cold producing device (12) by means of the cold carrier medium circulating in the cooling circuit.

WO 2005/063568 A1